

JUN 09 2004

SEQUENCE LISTING

<110> Michael E. Mendelsohn

<120> METHOD FOR ASSAYING COMPOUNDS AFFECTING
CELL DIVISION

<130> 00398/506001

<140> 09/352,570

<141> 1999-07-13

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(618)

<400> 1

atg gcg ctg cag ctc tcc cgg gag cag gga atc acc ctg cgc ggg agc 48
Met Ala Leu Gln Leu Ser Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser
1 5 10 15

gcc gaa atc gtg gcc gag ttc ttc tca ttc ggc atc aac agc att tta 96
Ala Glu Ile Val Ala Glu Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu
20 25 30

tat cag cgt ggc ata tat cca tct gaa acc ttt act cga gtg cag aaa 144
Tyr Gln Arg Gly Ile Tyr Pro Ser Glu Thr Phe Thr Arg Val Gln Lys
35 40 45

tac gga ctc acc ttg ctt gta act act gat ctt gag ctc ata aaa tac 192
Tyr Gly Leu Thr Leu Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr
50 55 60

cta aat aat gtg gtg gaa caa ctg aaa gat tgg tta tac aag tgt tca 240
Leu Asn Asn Val Val Glu Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser
65 70 75 80

gtt cag aaa ctg gtt gta atc tca aat att gaa agt ggt gag gtc. 288
Val Gln Lys Leu Val Val Ile Ser Asn Ile Glu Ser Gly Glu Val
85 90 95

ctg gaa aga tgg cag ttt gat att gag tgt gac aag act gca aaa gat 336
Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp
100 105 110

gac agt gca ccc aga gaa aag tct cag aaa gct atc cag gat gaa atc 384

Asp Ser Ala Pro Arg Glu Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile			
115	120	125	
cgt tca gtg atc aga cag atc aca gct acg gtg aca ttt ctg cca ctg			432
Arg Ser Val Ile Arg Gln Ile Thr Ala Thr Val Thr Phe Leu Pro Leu			
130	135	140	
ttg gaa gtt tct tgt tca ttt gat ctg ctg att tat aca gac aaa gat			480
Leu Glu Val Ser Cys Ser Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp			
145	150	155	160
ttg gtt gta cct gaa aaa tgg gaa gag tcg gga cca cag ttt att acc			528
Leu Val Val Pro Glu Lys Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr			
165	170	175	
aat tct gag gaa gtg cgc ctt cgt tca ttt act act aca atc cac aaa			576
Asn Ser Glu Glu Val Arg Leu Arg Ser Phe Thr Thr Thr Ile His Lys			
180	185	190	
gta aat agc atg gtg gcc tac aaa att cct gtc aat gac tga			618
Val Asn Ser Met Val Ala Tyr Lys Ile Pro Val Asn Asp *			
195	200	205	

<210> 2
<211> 199
<212> PRT
<213> Homo sapiens

<400> 2			
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu			
1	5	10	15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr			
20	25	30	
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu			
35	40	45	
Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Glu			
50	55	60	
Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val			
65	70	75	80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe			
85	90	95	
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu			
100	105	110	
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln			
115	120	125	
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser			
130	135	140	
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys			
145	150	155	160
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg			
165	170	175	
Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala			
180	185	190	
Tyr Lys Ile Pro Val Asn Asp			
195			

<210> 3
 <211> 600
 <212> DNA
 <213> Ovis aries

<220>
 <221> CDS
 <222> (1)...(600)

<400> 3
 cg¹ g⁵ a¹⁰ g¹⁵ g⁴⁸
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu

ttc²⁰ ttc²⁵ tca³⁰ ttt³⁵ ggt⁴⁰ atc⁴⁵ aac⁵⁰ agt⁵⁵ att⁶⁰ tta⁶⁵ tat⁷⁰ cag⁷⁵ cgt⁸⁰ ggc⁸⁵ ata⁹⁰ tat⁹⁵ 96
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr

cca³⁵ tcg⁴⁰ gaa⁴⁵ acc⁵⁰ ttt⁵⁵ act⁶⁰ cga⁶⁵ gt⁷⁰ g⁷⁵ a⁸⁰ a⁸⁵ a⁹⁰ t⁹⁵ 144
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu

gta⁵⁰ act⁵⁵ act⁶⁰ gat⁶⁵ cct⁷⁰ gag⁷⁵ ctc⁸⁰ ata⁸⁵ aaa⁹⁰ tac⁹⁵ cta¹⁰⁰ aat¹⁰⁵ aat¹¹⁰ gt¹¹⁵ gt¹²⁰ gat¹²⁵ 192
 Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp

caa⁶⁵ cta⁷⁰ aaa⁷⁵ gaa⁸⁰ tgg⁸⁵ tta⁹⁰ tac⁹⁵ aag¹⁰⁰ t¹⁰⁵ gt¹¹⁰ t¹¹⁵ c¹²⁰ g¹²⁵ gta¹³⁰ 240
 Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val

gtc⁸⁵ atc⁹⁰ tca⁹⁵ aat¹⁰⁰ att¹⁰⁵ gaa¹¹⁰ agt¹¹⁵ gga¹²⁰ gag¹²⁵ gtc¹³⁰ ctt¹³⁵ gaa¹⁴⁰ aga¹⁴⁵ tgg¹⁵⁰ cag¹⁵⁵ gt¹⁶⁰ g¹⁶⁵ t¹⁷⁰ g¹⁷⁵ 288
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe

gat¹⁰⁰ att¹⁰⁵ gag¹¹⁰ tgt¹¹⁵ gac¹²⁰ aag¹²⁵ act¹³⁰ gca¹³⁵ aaa¹⁴⁰ gat¹⁴⁵ gac¹⁵⁰ agt¹⁵⁵ gca¹⁶⁰ ccc¹⁶⁵ aga¹⁷⁰ gaa¹⁷⁵ 336
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu

aag¹¹⁵ tct¹²⁰ cag¹²⁵ aaa¹³⁰ gct¹³⁵ atc¹⁴⁰ caa¹⁴⁵ gat¹⁵⁰ gaa¹⁵⁵ atc¹⁶⁰ cgt¹⁶⁵ tca¹⁷⁰ gt¹⁷⁵ atc¹⁸⁰ aga¹⁸⁵ cag¹⁹⁰ 384
 Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln

atc¹³⁰ aca¹³⁵ gct¹⁴⁰ aca¹⁴⁵ aca¹⁵⁰ ttt¹⁵⁵ ctg¹⁶⁰ cca¹⁶⁵ ctg¹⁷⁰ ttg¹⁷⁵ gaa¹⁸⁰ gtt¹⁸⁵ tct¹⁹⁰ tgt¹⁹⁵ tca²⁰⁰ 432
 Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser

ttt¹⁴⁵ gat¹⁵⁰ ctc¹⁵⁵ ctc¹⁶⁰ att¹⁶⁵ tat¹⁷⁰ aca¹⁷⁵ gac¹⁸⁰ aaa¹⁸⁵ gat¹⁹⁰ ctg¹⁹⁵ gtt²⁰⁰ gta²⁰⁵ cct²¹⁰ gag²¹⁵ aaa²²⁰ 480
 Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys

tgg¹⁶⁵ gaa¹⁷⁰ gag¹⁷⁵ tcc¹⁸⁰ gga¹⁸⁵ cca¹⁹⁰ cag¹⁹⁵ ttc²⁰⁰ att²⁰⁵ acc²¹⁰ aat²¹⁵ tct²²⁰ gaa²²⁵ gaa²³⁰ gtt²³⁵ cgt²⁴⁰ 528
 Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg

ctt¹⁸⁰ cgt¹⁸⁵ tca¹⁹⁰ ttc¹⁹⁵ act²⁰⁰ act²⁰⁵ aca²¹⁰ att²¹⁵ cac²²⁰ aaa²²⁵ gta²³⁰ aat²³⁵ agc²⁴⁰ atg²⁴⁵ gta²⁵⁰ gcc²⁵⁵ 576
 Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala

tac aaa att cct gtc cat gac tga
Tyr Lys Ile Pro Val His Asp *
195

600

<210> 4
<211> 199
<212> PRT
<213> Ovis aries

<400> 4
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
1 5 10 15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
20 25 30
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
35 40 45
Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
50 55 60
Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
65 70 75 80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
85 90 95
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
100 105 110
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
115 120 125
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
130 135 140
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
145 150 155 160
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
165 170 175
Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala
180 185 190
Tyr Lys Ile Pro Val His Asp
195